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CATALOGUE
OF
CHARTS
MAPS
COAST PILOTS
TIDE TABLES
AND
CURRENT TABLES
OF THE
PHILIPPINE ISLANDS

JANUARY 1, 1931



ISSUED BY THE U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY



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U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

R. S. PATTON, DIRECTOR

CATALOGUE
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UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1931

EXPLANATION OF DATES ON U. S. COAST AND GEODETIC SURVEY CHARTS

All U. S. Coast and Geodetic Survey charts bear below the border line a note indicating the date on which they were issued from the office in Washington, D. C., or Manila, P. I. The form of this note is—

LIGHTS, BEACONS, BUOYS, AND DANGERS CORRECTED
FOR INFORMATION RECEIVED TO DATE OF ISSUE (date)

It should be understood that no additional information relative to lights, beacons, buoys, and dangers which could be charted had been received previous to this date. It is therefore unnecessary for a mariner to examine his file of Notice to Mariners of date prior to the date of issue of the chart for such corrections.

Other dates which appear on these charts are of less importance to mariners, but are necessary for the identification of the edition and print of the chart, and should be understood by those who use the chart.

A note, known as the authority note, gives the dates (years) of the surveys from which the chart was constructed. This note reads as follows:

AUTHORITIES
SURVEYS (date)

The surveys are by the U. S. Coast and Geodetic Survey unless otherwise stated.
When a new chart is issued, the date (month and year) is printed in the publication note.

PUBLISHED AT MANILA, P. I. (date)
BY THE U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, *Director*

This note is always placed just below the border of the chart and as near a central position as possible. The date in this note remains unchanged until an extensive correction is made on the plate from which the chart is printed. The date is then changed and the issue known as a new edition.

When a correction, not of sufficient importance to require a new edition, is made to a chart plate, the year, month, and day are noted below the border in the left-hand corner of the chart, thus: 20-6/30, 7/22, 21-2/3, 5/27.

EXPLANATORY NOTES

The charts embraced in this catalogue are constructed on different scales in order to adapt them to the different conditions of navigation. The small-scale charts include large areas and are suited to offshore navigation, while those on large scale include small areas and are suited to alongshore navigation.

They are classified as follows:

SAILING CHART.—Scale, 1:1,600,000.

It is intended for the use of the navigator to fix his position as he approaches the coast from the open ocean or when sailing between distant coast ports. It shows the offshore soundings, the principal lights and outer buoys, and such natural landmarks as may be visible at a considerable distance.

GENERAL CHARTS OF THE COAST.—Scales from 1:400,000 to 1:800,000. They are intended for coastwise navigation when the vessel's course would mostly be within sight of land, with her position fixed by landmarks, lights, outer buoys, and characteristic soundings.

COAST CHARTS.—Scales from 1:100,000 to 1:200,000. They are intended for close coastwise navigation when a vessel's course would carry her inside outlying reefs and shoals; also for entering bays and harbors of considerable width and for navigating the large inland waterways.

HARBOR CHARTS.—Scales from 1:5,000 to 1:80,000. They are intended for navigation of harbors and small waterways.

U. S. SUPERINTENDENT OF DOCUMENTS

Feb 19 1931
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SALES AGENCIES

Agencies for the sale of the charts, coast pilots, and tide tables of the U. S. Coast and Geodetic Survey.
 Philippine Islands:

Cebu—Pacific Commercial Co.

Iloilo—Hoskyn & Co.

Manila—*Luzon Stevedoring Co., between Pier 3 and Pier 5, Port Area.

† U. S. Coast and Geodetic Survey Field Station, Intendencia Building.

Zamboanga—Francisco Barrios & Co.

Hawaii:

Honolulu—*Honolulu Paper Co. (Ltd.), 1045 Bishop Street.

Agents marked with an asterisk (*) also handle Hydrographic Office publications. Agents marked with a dagger (†) also handle Lighthouse Service publications.

COAST PILOTS

Philippine Islands, Part 1.—Luzon, Mindoro, and Visayas, 8vo, canvas, 1927, with supplement to Jan. 1, 1930.
 Price, 75 cents.

Philippine Islands, Part 2.—Palawan, Mindanao, and Sulu Archipelago, 8vo, canvas, 1930. Price 75 cents.

TIDE TABLES

[Published annually six months in advance]	Price
United States and Foreign Ports.....	\$0. 75
Pacific Coast Tide Tables for western North America, eastern Asia, and many island groups.....	. 15

CURRENT TABLES

[Published annually six months in advance]	
Pacific Coast, North America and Philippine Islands.....	\$0. 10

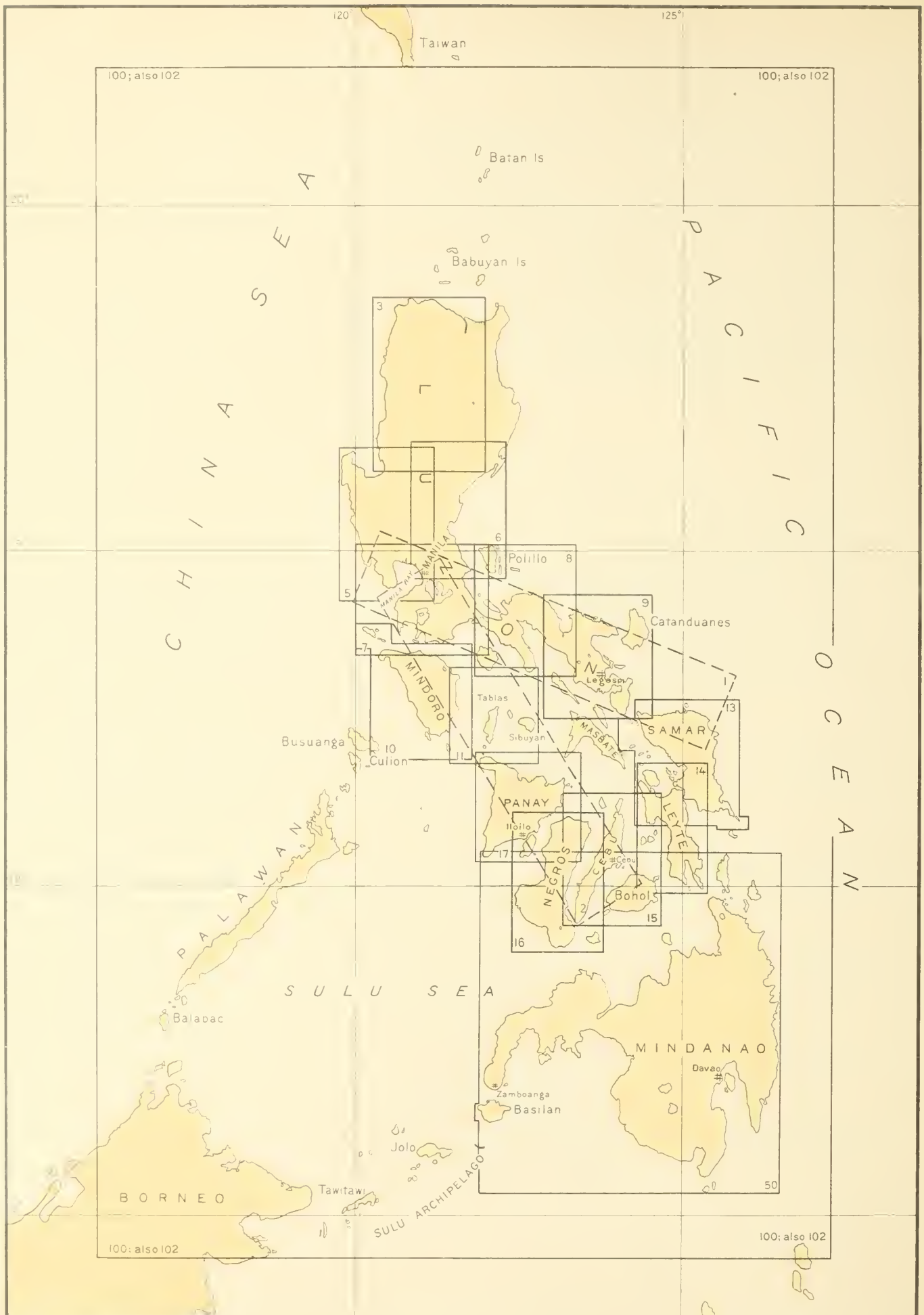
NOTICE TO MARINERS

Corrections to be applied to charts to keep them up to date and the announcement of new charts, new editions of charts, and new publications of the Philippine Islands are included in the Notice to Mariners, published by the U. S. Coast and Geodetic Survey Field Station, Manila, P. I.

TRIANGULATION*

Philippine Islands, Vol. I.—8vo., paper, pp. 468, 1927.....	\$0. 50
Philippine Islands, Vol. II.—8vo., paper, pp. 476, 1927.....	. 50
Manila—8vo., paper, pp. 55, 1926.....	. 15

* Obtainable only from the Director of Coast Surveys, Manila, P. I.



TOPOGRAPHIC MAPS OF THE PHILIPPINE ISLANDS

Cat. No.	Title	Scale	Size	Date	Price	Cat. No.	Title	Scale	Size	Date	Price
3	Northern Luzon—western sheet.....	1:200,000	<i>Inches</i> 38×56	1929	\$2. 00	13	Samar and adjacent islands.....	1:200,000	<i>Inches</i> 36×40	1920	\$1. 50
5	Central Luzon.....	1:200,000	32×50	1928	1. 50	14	Leyte.....	1:200,000	24×44	1914	1. 00
6	Central Luzon—eastern sheet.....	1:200,000	31×45	1926	1. 00	15	Cebu and Bohol.....	1:200,000	33×43	1930	1. 50
7	Southern Luzon.....	1:200,000	36×44	1925	1. 50	16	Negros.....	1:200,000	32×46	1924	1. 50
8	Southern Luzon—central sheet.....	1:200,000	34×43	1930	1. 50	17	Panay.....	1:200,000	35×38	1912	1. 00
9	Southern Luzon—southern sheet.....	1:200,000	36×41	1920	1. 50	50	Mindanao*.....	1:600,000	36×39	1923	1. 50
10	Mindoro.....	1:200,000	32×40	1929	1. 00	100	Philippine Islands (in four sheets)†.....	1:1,000,000	50×78	1927	2. 00
11	Islands of Tablas, Romblon, and Sibuyan.....	1:200,000	30×32	1913	. 50	102	Contour map of the Philippine Islands and waters (in four sheets)†.....	1:1,000,000	50×78	1924	2. 00

* Index of names appearing on map No. 50, 8vo., 22 pp. Price, 10 cents.

† Can be supplied by the Director of Coast Surveys, Manila, P. I., mounted on muslin, at \$4 per copy.

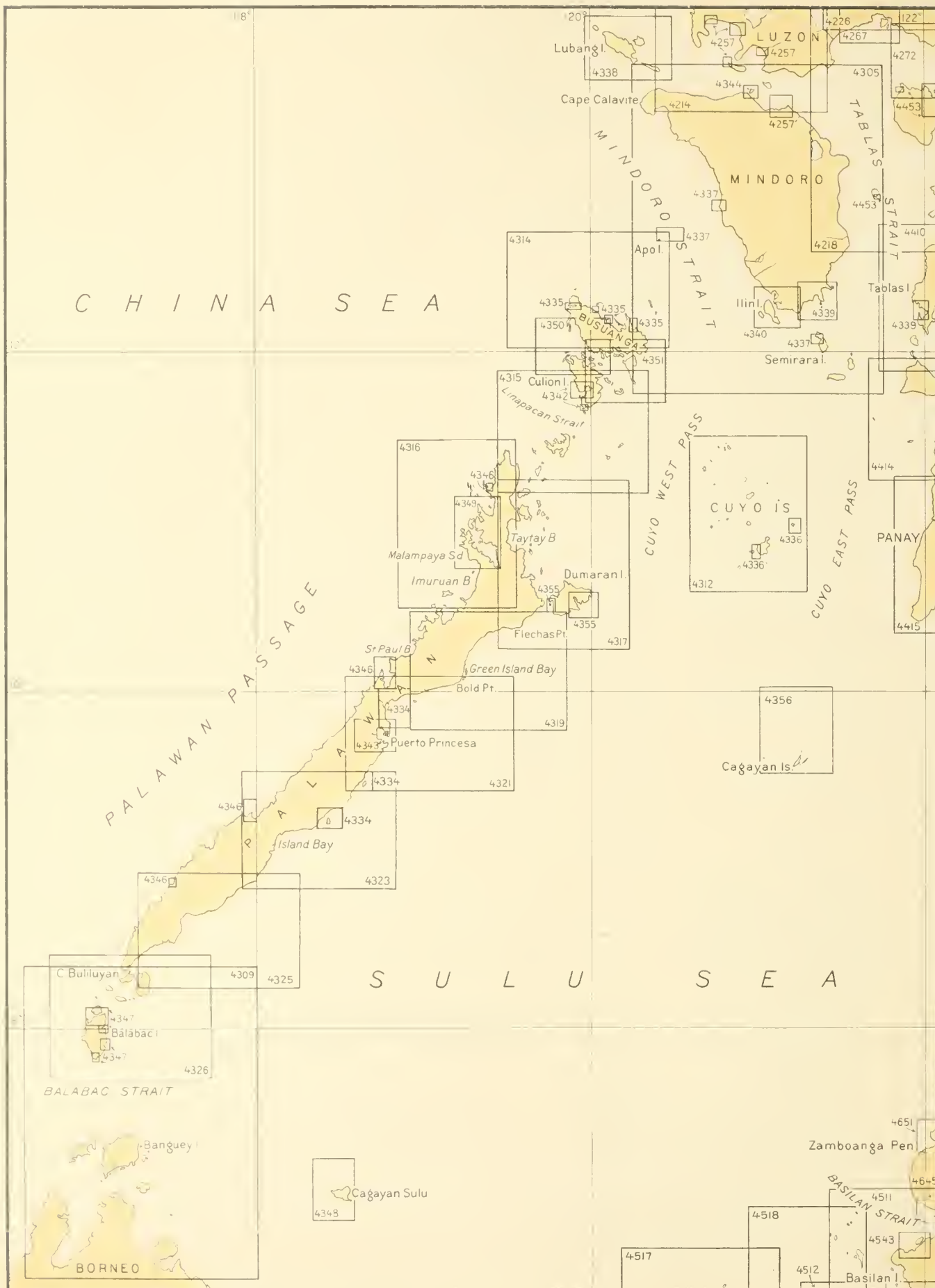
AIRWAY MAPS

Cat. No.	Title	Scale	Date	Price
1	Manila to Legaspi and Laoang.....	1:500,000	1929	\$0. 50
2	Manila to Cebu..... (in preparation)	1:500,000		. 50

CHARTS OF THE PHILIPPINE ISLANDS

[Numerical arrangement]

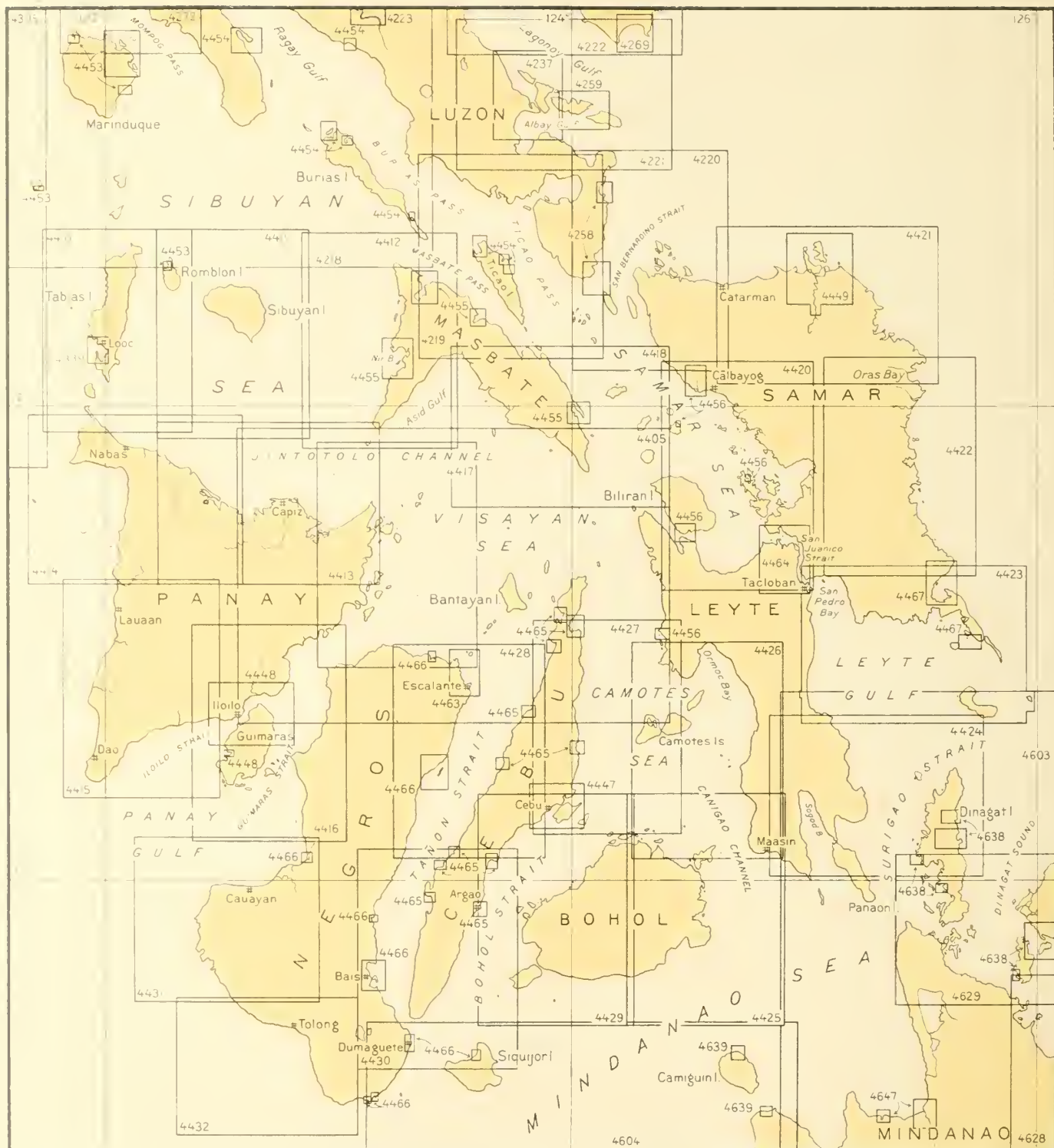
Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price	Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
COAST AND HARBOR CHARTS						COAST AND HARBOR CHARTS—Continued					
4200	Philippine Islands (see p. 15 for diagram)	1:1,600,000	33×49	1930	\$0.75	4259	Rapu Rapu Strait	1:20,000	34×36	1924	\$0.75
4205	Batan Islands	1:100,000	29×11	1929	.75	4260	Aparri Anchorage and part of Cagayan River; Luzon, I.	1:25,000	20×33	1915	.25
4207	Laosg to Vigan, Luzon, I.	1:100,000	31×41	1906	.75	4265	Harbors on east coast of Luzon; Luzon, I.		25×35	1909	.50
	Port Currimao and Gan Bay	1:20,000					Port Dimalansan and Port Bicobian	1:60,000			
4208	Salomague Harbor and Lapog Bay	1:20,000					West Dilasac Bay	1:50,000			
	Solvec Cove to San Fernando; Luzon, I.	1:100,000	31×42	1925	.75		Casiguran Bay	1:80,000			
	Solvec Cove	1:10,000					Baler Bay	1:50,000			
	San Esteban and Nalbo Bay	1:20,000					Hook Bay	1:20,000			
	Santiago Cove	1:10,000					Polillo Harbor	1:30,000			
	Darigayos Inlet	1:10,000					Port Lampon	1:20,000			
4209	Lingayen Gulf; Luzon, I.	1:100,000	31×42	1924	.75		Mauban Anchorage	1:20,000			
4210	Capones Islands to Basol Bay; Luzon, I.	1:125,000	24×41	1915	.75	4266	Port Apat	1:20,000			
	Santa Cruz Inner Harbor	1:30,000					Ports Masinloc and Matalvi and Palauig Bay; Luzon, I.	1:25,000	29×32	1907	.50
	Iba Anchorage	1:30,000				4267	Lucena Anchorage, Pagbilao Bay and Port Laguimanoc; Luzon, I.	1:40,000	25×35	1924	.50
4214	Verde Island Passage	1:125,000	31×37	1915	.75		Harbors from Alabat to Pitogo Bay		26×30	1909	.50
4218	Ragay Gulf to Tayabas Bay; Luzon, I.	1:200,000	32×45	1922	.75	4268	Port Alabat, southwest coast; Alabat, I.	1:20,000			
	Vinas River	1:50,000					Sangirin Bay, northwest coast; Alabat, I.	1:20,000			
4219	Passages between Luzon and Masbate and Sorsogon Bay	1:100,000	35×39	1919	.75		Tabgon Anchorage, east coast; Luzon, I.	1:30,000			
4220	San Bernardino Strait; Luzon and Samar, Is.	1:100,000	30×41	1917	.75		Canimo Pass and Mercedes, east coast; Luzon, I.	1:25,000			
	Biri Anchorage	1:20,000					Pitogo Bay, east coast; Luzon, I.	1:15,000			
	Mauro River	1:10,000				4269	Harbors of Catanduanes		24×27	1923	.25
4221	Albay Gulf and part of Lagonoy Gulf; Luzon, I.	1:100,000	29×40	1924	.75		Cabugao Bay, south coast	1:50,000			
4222	Lagonoy Gulf to Lamit Bay and Catanduanes Island; Luzon, I.	1:100,000	32×43	1924	.75		Bagamanoc and Anajao, east coast	1:30,000			
4223	San Miguel and Lamit Bays; Luzon, I.	1:100,000	29×41	1923	.75		Cobo Bay, west coast	1:20,000			
	Continuation of Bicol River	1:100,000					Port Manamrag, west coast	1:20,000			
4226	Lamon Bay and Polillo Island	1:200,000	31×35	1928	.75		Pandan Bay, north coast	1:30,000			
4230	Laguna de Bay	1:60,000	29×34	1921	.75		Gigmoto Bay, east coast	1:20,000			
	Napindan Channel, Pasig River approach	1:10,000					Kalapadan Bay, east coast	1:30,000			
4235	Pasig River; Luzon, I.	1:10,000	26×42	1922	.75	4270	Harbors of Batan and Babuyan Islands and northern Luzon		23×24	1908	.25
4236	Manila and Cavite Harbors; Luzon, I.		21×35	1924	.50		Part of Batan Islands, including Basco and Ibana	1:40,000			
	Manila Harbor	1:10,000					Port San Pio Quinto; Camiguin, I.	1:60,000			
	Cavite Harbor	1:10,000					Musa Bay; Babuyan, I.	1:30,000			
4237	Tabaco Bay to Legaspi and western part of Albay Gulf; Luzon, I.	1:40,000	32×41	1924	.75		Dirique Inlet; Luzon, I.	1:10,000			
4238	Bolinao Harbor and approaches; Luzon, I.	1:20,000	35×36	1911	.75	4271	Lamit and Sisiran Bays; Luzon, I.	1:30,000	30×41	1924	.75
4239	Port Sual to Comas Island; Luzon, I.	1:15,000	23×38	1904	.50	4272	Unisanto Mulanay and northern part of Marinduque; Luzon and Marinduque, Is.	1:70,000	28×38	1910	.75
4246	San Fernando Harbor; Luzon, I.	1:15,000	25×28	1924	.50	4273	Silangan Pass and Hondagua Harbor; Luzon, I.	1:20,000	17×32	1913	.25
4255	Manila Bay and Coast of Luzon to Capones Islands; Luzon, I.	1:125,000	27×37	1924	.75	4274	Tanao Pass, Luzon, I.	1:40,000	24×36	1921	.50
	Mariveles Harbor	1:20,000				4275	Polillo Islands	1:80,000	32×42	1924	.75
4257	Anchorage, vicinity of Verde Island Passage		28×36	1922	.75	4276	Harbors on the northeast coast of Luzon		22×32	1926	.25
	Nasugbu and Hamilo Cove; Luzon, I.	1:50,000					Port Bicobian	1:15,000			
	Balayan; Luzon, I.	1:10,000					Engaño Cove	1:10,000			
	Taal and Lemery; Luzon, I.	1:10,000					Port San Vicente	1:15,000			
	Batangas; Luzon, I.	1:15,000				4279	Harbors in Babuyan Islands		23×32	1930	.50
	Port Maricaban; Maricaban, I.	1:10,000					Banoa Landing	1:20,000			
	Calapan; Mindoro, I.	1:40,000					Calayan and Cibang Cove	1:20,000			
4258	Matnog Bay and Tielin Strait; Luzon, I.	1:30,000	18×26	1916	.25		San Dionisio	1:20,000			
	Port Gubat; Luzon, I.	1:20,000					Baragan Cove	1:20,000			
							San Pio Quinto	1:20,000			
							Musa Bay	1:15,000			



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Charts of the Philippine Islands—Continued

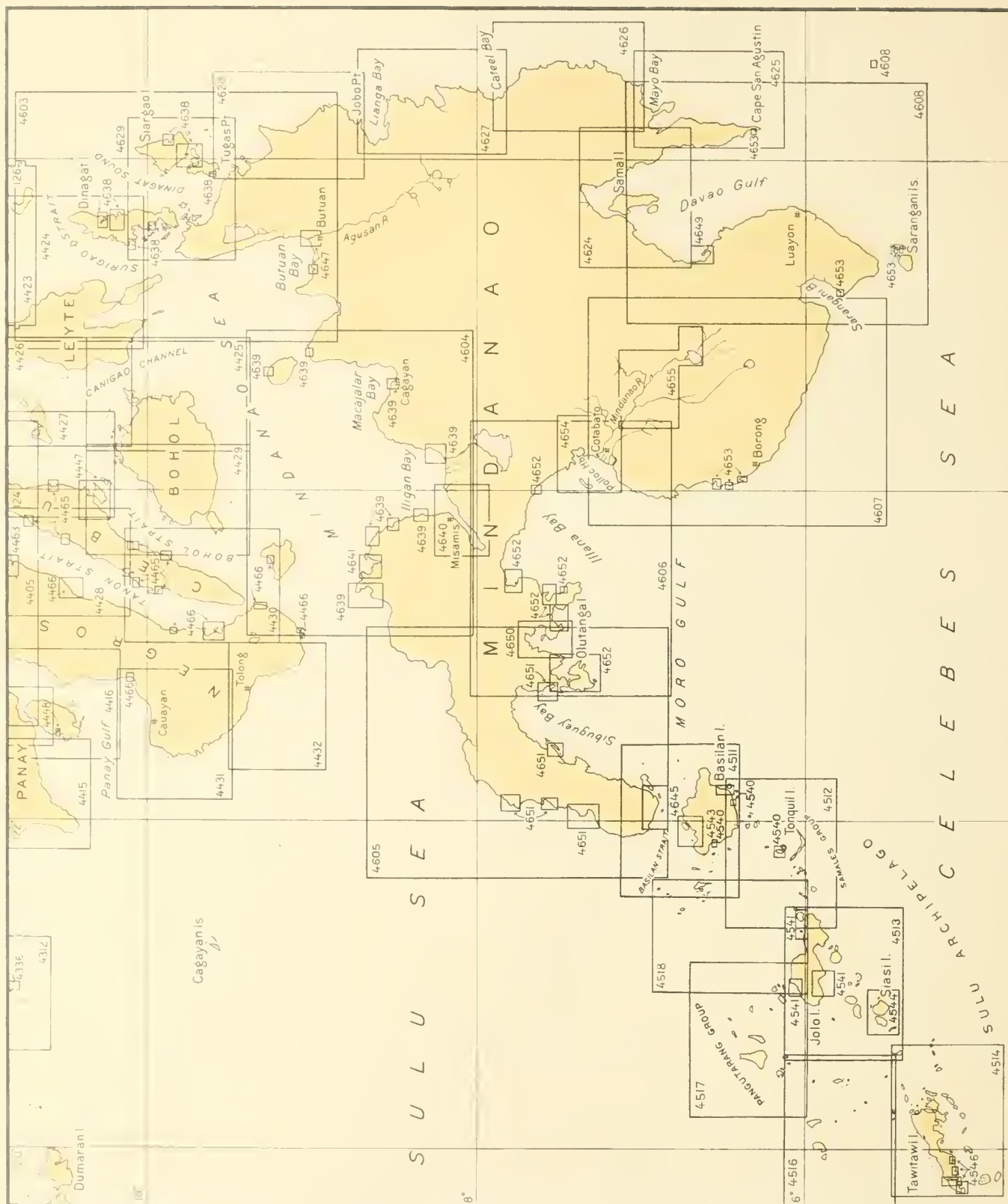
Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price	Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
COAST AND HARBOR CHARTS—Continued						COAST AND HARBOR CHARTS—Continued					
4305	Mindoro and vicinity.....	1:200,000	33×43	1919	\$0.75	4339	Anchorage southeast Mindoro and Tablas Island.....		25×37	1912	\$0.50
4309	Balabac Strait.....	1:20,000	31×42	1921	.75		Looc Bay; Tablas, I.....	1:40,000			
4312	Cuyo Islands.....	1:100,000	31×41	1922	.75		Lagara Cove and Passes southward; Mindoro, I.....	1:20,000			
4314	Northern part of Busuanga.....	1:100,000	31×42	1919	.75		Buruncan Point to Pocanil Bay; Mindoro, I.....	1:40,000			
4315	Palawan to Culion Island, including Linapacan Strait.....	1:100,000	32×41	1917	.75	4340	Mangarin and Pandarochan Bays; Mindoro, I.....	1:40,000	26×30	1911	.50
4316	Northwest Palawan.....	1:100,000	31×45	1925	.75	4342	Halsey Harbor and Dicabaito Anchorage; Culion, I.....	1:20,000	23×32	1921	.50
4317	Northeast coast of Palawan, Shark Fin Bay to Flechas Point; Palawan, I.....	1:100,000	31×44	1918	.75		Dicabaito Anchorage.....	1:20,000			
4319	Green Island Bay and vicinity.....	1:100,000	31×41	1920	.75	4343	Puerto Princesa; Palawan, I.....	1:40,000	23×29	1920	.25
	Fascoe Channel, Green, I.....	1:20,000				4344	Port Galera and Varadero Bay; Mindoro, I.....	1:10,000	29×35	1924	.75
4321	Bold Point to Malanao Island.....	1:100,000	31×43	1920	.75	4346	Harbors of Palawan Island.....		26×30	1920	.50
4323	Malanao Island to Nariz Point.....	1:100,000	31×43	1922	.75		Bacuit, northwest coast.....	1:15,000			
4325	Nariz Point to Bugsuk Island.....	1:100,000	31×44	1922	.75		Ulugan Bay, west coast.....	1:30,000			
4326	North Balabac Strait and vicinity.....	1:100,000	32×42	1921	.75		Malanut and Nakoda Bays, west coast.....	1:30,000			
4334	Anchorage East Coast of Palawan.....		27×39	1921	.75	4347	Culasian Bay, west coast.....	1:20,000			
	Honda Bay.....	1:40,000					Harbors of Balabac Island.....		23×28	1920	.25
	Malanao Anchorage.....	1:40,000					Clarendon Bay, south coast.....	1:15,000			
	Panacan Anchorage.....	1:40,000					Calandorang Bay, east coast.....	1:15,000			
4335	Harbors on the north coast of Busuanga.....		18×29	1920	.25		Delawan Bay, east coast.....	1:20,000			
	Minuit Anchorage.....	1:20,000					Port Ciego, north coast.....	1:40,000			
	Illultuk Bay.....	1:20,000				4348	Cagayan Sulu and adjacent islands.....	1:75,000	19×37	1924	.50
	Port Calton.....	1:20,000					Lapulapun Anchorage.....	1:15,000			
	Minangas Bay.....	1:20,000				4349	Malampaya Sound and approaches; Palawan, I.....	1:50,000	26×38	1926	.50
4336	Anchorage in Cuyo Islands.....		29×34	1918	.50	4350	Western entrance to Coron Bay; Calamian Group.....	1:50,000	30×39	1919	.75
	Tagauayan Islands.....	1:10,000				4351	Coron Bay; Calamian Group.....	1:50,000	33×41	1916	.75
	Cuyo Anchorage and Bisucay Channel.....	1:10,000					Culion Landing.....	1:2,000			
4337	Anchorage west and south of Mindoro; Mindoro, I.....		28×36	1916	.75	4355	Harbors on Dumaran Island.....	1:20,000	33×38	1920	.75
	Apo Reef.....	1:20,000					Dumaran Bay.....	1:20,000			
	Sablayan Anchorage and Pandan Bay.....	1:20,000				4356	Cagayan Islands.....	1:60,000	33×39	1923	.75
	Semirara Anchorage.....	1:20,000					Cagayan Anchorage.....	1:10,000			
4338	Lubang Islands.....	1:60,000	28×38	1914	.75						
	Golo Pass.....	1:20,000									



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Charts of the Philippine Islands—Continued

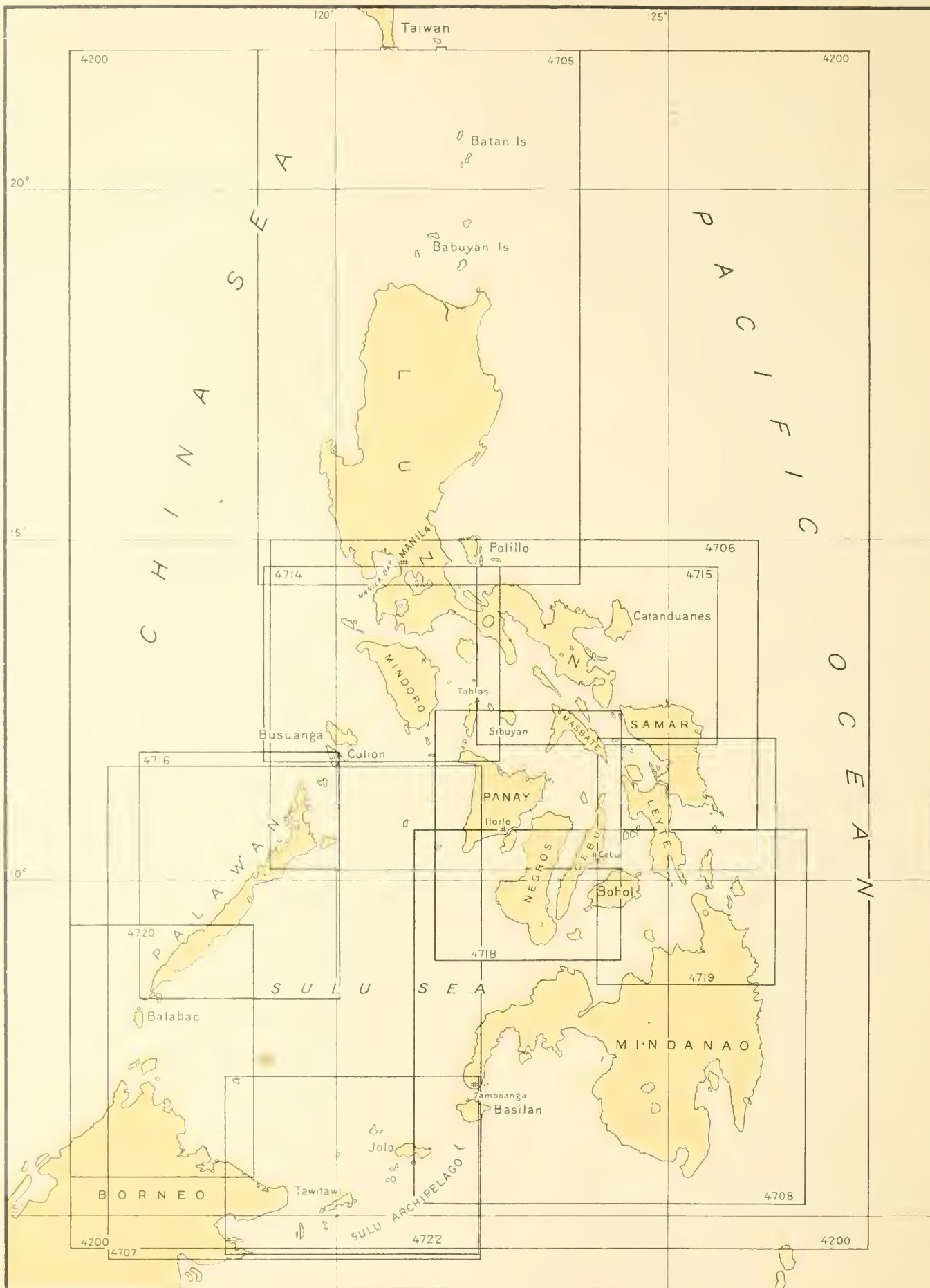
Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price	Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
COAST AND HARBOR CHARTS—Continued						COAST AND HARBOR CHARTS—Continued					
4405	Visayan Sea.....	1:200,000	28×41	1914	\$0.75	4454	Harbors on Burias and Ticao Islands and Ragay Gulf.....		31×33	1920	\$0.75
4410	Tablas Island and vicinity.....	1:100,000	28×38	1913	.75		Port Pusgo, Ragay Gulf; Luzon, I.....	1:30,000			
4411	Sibuyan and Romblon Islands.....	1:100,000	29×39	1914	.75		Pasacao Anchorage, Ragay Gulf; Luzon I.....	1:20,000			
4412	Western Mashate.....	1:100,000	30×40	1917	.75		Port Busin, north coast; Burias, I.....	1:20,000			
4413	Northern Panay, Sigat Point to Bulacane Point.....	1:100,000	30×42	1919	.75		Port Busainga, northeast coast; Burias, I.....	1:15,000			
	Capiz Bay.....	1:30,000					Port Boca Engaño, southeast coast; Burias, I.....	1:10,000			
	Port Batan.....	1:30,000					Port San Miguel, northwest coast; Ticao, I.....	1:20,000			
4414	Northwestern Panay.....	1:100,000	32×40	1917	.75		Port San Jacinto, east coast; Ticao, I.....	1:20,000			
4415	Southwestern Panay.....	1:100,000	30×40	1921	.75		Taclogan Bay, east coast of Ticao, I.....	1:20,000			
	San Jose De Buenavista.....	1:10,000				4455	Harbors on the coast of Masbate.....		28×37	1917	.75
4416	Iloilo and Guimaras Straits; Panay and Guimaras, Is.....	1:100,000	30×41	1925	.75		Port Barrera, north coast.....	1:30,000			
4417	Northeastern Panay and adjacent islands.....	1:100,000	31×42	1911	.75		Masbate Harbor, northeast coast.....	1:20,000			
4418	Southeast Mashate.....	1:100,000	30×41	1915	.75		Port Cataingan, east coast.....	1:30,000			
4420	Calbayog to Tacloban; Samar and Leyte, Is.....	1:100,000	29×42	1924	.75		Nin Bay, west coast.....	1:30,000			
	Catbalogan Harbor.....	1:35,000				4456	Harbors of Samar and Leyte.....		24×28	1914	.25
4421	Catarman to Oras Bay; Samar, I.....	1:100,000	30×42	1908	.75		Jibatan River, west coast; Samar, I.....	1:50,000			
	Helm Harbor and San Ramon Bay.....	1:25,000					Santo Niño Harbor; Santo Niño, I.....	1:5,000			
4422	Oras Bay to Matarinao Bay; Samar, I.....	1:100,000	29×41	1908	.75		Parasan Harbor; Daram, I.....	1:10,000			
	Port Libas.....	1:30,000					Biliran Strait; Leyte and Biliran, Is.....	1:20,000			
	Port Borongan.....	1:30,000					Port Palompon; Leyte, I.....	1:10,000			
	Lorente and vicinity.....	1:30,000				4463	Escalante Harbor and vicinity; Negros, I.....	1:20,000	30×41	1924	.75
4423	Southern part of Samar and San Pedro Bay.....	1:100,000	30×43	1910	.75	4464	San Juanico Strait and Janabatas Channel; Samar and Leyte, Is.....	1:30,000	31×40	1910	.75
4424	Southeast coast of Leyte and Dinagat Island.....	1:100,000	31×41	1913	.75		Northern entrance to San Juanico Strait.....	1:10,000			
	Liloan Bay and Panaon Strait.....	1:10,000				4465	Harbors in Cebu.....		25×32	1912	.50
4425	Eastern Bohol and part of Leyte.....	1:100,000	31×44	1910	.75		Hagnaya Bay.....	1:30,000			
4426	Southwest coast of Leyte, Ormoc Bay to Maasin.....	1:100,000	30×41	1915	.75		Tuburan.....	1:30,000			
	Maasin.....	1:10,000					Balamban Bay.....	1:30,000			
4427	East coast of Cebu; Cebu, I.....	1:100,000	28×40	1910	.75		Lambusan.....	1:30,000			
4428	Northern part of Tañon Strait; Negros and Cebu, Is.....	1:100,000	29×40	1911	.75		Dumanjug Bay.....	1:20,000			
4429	Western Bohol; Bohol, I.....	1:100,000	30×44	1911	.75		Moalhual.....	1:20,000			
4430	Tañon Strait, southern part; Cebu and Negros, Is.....	1:100,000	31×42	1911	.75		Argao.....	1:25,000			
4431	Western Negros.....	1:100,000	32×36	1926	.75		Bogo Bay.....	1:30,000			
	Asia Bay.....	1:10,000					Carear Bay.....	1:15,000			
4432	Southwestern Negros.....	1:100,000	27×35	1913	.75		Port Carmen.....	1:15,000			
4447	Cebu Harbor and approaches; Cebu, I.....	1:30,000	28×35	1925	.50		Barili Bay.....	1:15,000			
	Cebu Harbor.....	1:10,000				4466	Harbors in Negros and vicinity.....		32×36	1922	.75
4448	Iloilo Strait and Harbor; Panay, I.....	1:50,000	24×32	1930	.50		Dumaguete; Negros, I.....	1:10,000			
	Iloilo River.....	1:10,000					Himugaan River; Negros, I.....	1:15,000			
	Santa Ana Bay.....	1:20,000					Calagcalag Bay; Negros, I.....	1:10,000			
4449	Port Palapag and Laoang Bay; Samar, I.....	1:40,000	31×33	1924	.75		Port Canaan; Siquijor, I.....	1:5,000			
4453	Harbors of Marinduque Island and vicinity.....		29×36	1913	.75		Port Bombonon; Negros, I.....	1:10,000			
	Port Balanacan, northwest coast; Marinduque, I.....	1:10,000					Refugio Pass; Negros, I.....	1:35,000			
	Santa Cruz Harbor and Masagasai Bay, northeast coast; Marinduque, I.....	1:30,000					Bais; Negros, I.....	1:30,000			
	Torrijos Bay, east coast; Marinduque, I.....	1:5,000					Port Siyt; Negros, I.....	1:10,000			
	Port Concepcion; Maestro de Campo, Is.....	1:10,000					Himamaylan; Negros, I.....	1:20,000			
	Romblon Harbor, west coast; Romblon, I.....	1:10,000				4467	Guiuan Harbor; Samar, I.....	1:20,000	19×31	1911	.25
							Pambujan Harbors; Samar, I.....	1:35,000			



C & G S Print

Charts of the Philippine Islands—Continued

Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price	Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
COAST AND HARBOR CHARTS—Continued						COAST AND HARBOR CHARTS—Continued					
4511	Basilan Strait; Mindanao and Basilan, Is.	1:100,000	32×42	1928	\$0.75	4638	Harbors on Dinagat, Siargao and Bucas Islands.....		30×37	1913	\$0.75
4512	Samales Group, Sulu Archipelago.....	1:100,000	31×42	1926	.75		Dapa Channel.....	1:35,000			
4513	Jolo and Tapul Islands, Sulu Archipelago.....	1:100,000	33×42	1928	.75		Gaas Bay and Inlet.....	1:30,000			
4514	Tawitawi Group, Sulu Archipelago.....	1:100,000	33×41	1930	.75		Dinagat.....	1:20,000			
	Port Dos Amigos.....	1:15,000					Sohutan Bay and Inlet.....	1:20,000			
	Port Bongao.....	1:25,000					San Roque.....	1:25,000			
	Simanale Bay and Channel.....	1:25,000					Port Pilar.....	1:30,000			
4516	Pearl Bank to Dammai Island, Sulu Archipelago.....		32×43	1930	.75		Malinao Inlet.....	1:25,000			
4517	Pangutarang Islands.....	1:100,000	31×42	1929	.75	4639	Anchorage in Iligan Bay and vicinity; Mindanao, I.....		29×35	1911	.75
4518	Jolo to Pilas Islands, Sulu Archipelago.....	1:100,000	31×42	1929	.75		Plaridel and Inamucan Bay.....	1:25,000			
4540	Anchorage Basilan and Samales Islands.....		32×33	1927	.50		Dapitan and Dipolog.....	1:40,000			
	Port Holland, west coast of Basilan.....	1:5,000					Canauayor Anchorage.....	1:20,000			
	Amoyloi, Anchorage south coast of Basilan.....	1:20,000					Jimenez.....	1:20,000			
	Ton Sandungun Channel, Samales Group.....	1:20,000					Iligan and Overton Anchorages and Quinalang Cove.....	1:40,000			
	Bojelebung and Kauluan Channels, east coast of Basilan.....	1:15,000					Oroquieta.....	1:20,000			
4541	Anchorage in Jolo Islands; Jolo, I.....		31×32	1927	.50	4640	Port Misamis, Mindanao, I.....	1:60,000	26×33	1908	.50
	Jolo Anchorage, north coast	1:10,000					Port Misamis.....	1:20,000			
	Dalrymple Harbor and Capual Channel, north-east coast.....	1:20,000				4641	Murcielagos Bay; Mindanao, I.....	1:20,000	30×32	1929	.50
	Maimbung Bay, south coast.....	1:40,000				4645	Vicinity of Zamboanga Masinloc Anchorage to Caldera Bay; Mindanao, I.....	1:30,000	24×37	1925	.50
4543	Isabela Channel and approaches; Basilan, I.....	1:25,000	25×33	1925	.50		Zamboanga water front.....	1:5,000			
4544	Siasi and Lapac Islands.....	1:30,000	31×40	1906	.75	4647	Agusan River entrance; Mindanao, I.....	1:20,000	19×28	1911	.25
4546	Harbors in western Tawitawi.....		30×36	1930	.75		Nasipit Harbor; Mindanao, I.....	1:15,000			
	Luuk Bay.....	1:20,000				4649	Malalag Bay, south coast; Mindanao, I.....	1:20,000	23×25	1923	.25
	Luuk Sula and Batu Baut.....	1:15,000					Dumanquilas Bay.....	1:35,000	27×38	1930	.75
	Manalik Channel.....	1:15,000				4651	Harbors on the south and west coasts of Mindanao.....		28×33	1930	.50
	Port Bongao and Chongos Bay.....	1:15,000					Port Banga; Mindanao, I.....	1:20,000			
4603	Surigao Strait and vicinity; Mindanao and Leyte, Is.....	1:200,000	34×44	1923	.75		Taba Bay; Mindanao, I.....	1:30,000			
4604	Iligan Bay and vicinity.....	1:200,000	31×41	1929	.75		Port Santa Maria; Mindanao, I.....	1:30,000			
4605	Zamboanga Peninsula; Mindanao, west coast.....	1:200,000	34×41	1930	.75		Panabutan and Piacan Bays; Mindanao, I.....	1:40,000			
4606	Port Sibulan to Polloc Harbor; Mindanao, I.....	1:200,000	28×37	1927	.75		Sibuco Bay; Mindanao, I.....	1:30,000			
4607	Cotabato to Sarangani Bay; Mindanao, I.....	1:200,000	31×41	1925	.75	4652	Harbors in Illana Bay and vicinity; Mindanao, I.....		31×33	1912	.75
	Milbuk Harbor.....	1:10,000					Port Sibulan.....	1:60,000			
4608	Sarangani Bay to Mayo Bay.....	1:200,000	33×41	1926	.75		Port Baras.....	1:20,000			
	Palmas Island.....	1:20,000					Limbug Cove.....	1:15,000			
4624	Northern part of Davao Gulf; Mindanao, I.....	1:100,000	32×39	1925	.75		Port Sambuluan.....	1:30,000			
	Davao.....	1:20,000					Pagadian Bay.....	1:50,000			
	Malipano Anchorage.....	1:20,000					Maligay Bay.....	1:50,000			
4625	Cape San Augustin to Mayo Bay; Mindanao, I.....	1:100,000	26×40	1914	.75	4653	Harbors on the south coast of Mindanao, I.....		25×34	1925	.50
	Balete Bay.....	1:20,000					Livigan Anchorage; Mindanao, I.....	1:5,000			
4626	Mayo Bay to Cateel Bay; Mindanao, I.....	1:100,000	30×41	1915	.75		Port Patuco, Sarangani, I.....	1:10,000			
4627	Cateel Bay to Jobo Point; Mindanao, I.....	1:100,000	29×40	1915	.75		Port Bolay, Sarangani, I.....	1:5,000			
	Lamon Anchorage.....	1:20,000					Port Tumanao, west coast; Sarangani, I.....	1:15,000			
	Catarman Anchorage.....	1:20,000					Canalasan Cove; Mindanao, I.....	1:20,000			
4628	Joho Point to Tugas Point; Mindanao, I.....	1:100,000	29×40	1913	.75		Basiauang Bay; Mindanao, I.....	1:20,000			
	Bitaugan Bay.....	1:30,000				4654	Port Leahak; Mindanao, I.....	1:20,000			
4629	Hinatuan Passage; Mindanao, I.....	1:100,000	30×38	1913	.75		Tuna Bay; Mindanao, I.....	1:20,000			
	Surigao.....	1:10,000					Mindanao River Delta and Polloc Harbor; Mindanao, I.....	1:50,000	34×41	1917	.75
							Parang and Polloc Anchorages.....	1:20,000			
							Cotahato entrance, Mindanao River.....	1:20,000			
						4655	Mindanao River, upper part; Mindanao, I.....	1:50,000	34×42	1924	.75
							Continuation of Buluan and Alip Rivers.....	1:50,000			



C. & G. S. Print

Charts of the Philippine Islands—Continued

Cat. No.	Title	Scale approximate	Size of border (inches)	Date of last edition	Price	Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
	SAILING CHART AND GENERAL CHARTS OF THE COAST						SAILING CHART AND GENERAL CHARTS OF THE COAST—Contd.				
4200	Philippine Islands.....	1:1,600,000	33×49	1930	\$0.75	4715	Southeastern Luzon and parts of Masbate and Samar.....	1:400,000	30×40	1917	\$0.75
4705	Manila Bay to Taiwan.....	1:800,000	28×44	1929	.75		Palawan.....	1:400,000	34×40	1922	.75
4706	Philippine Islands, central part.....	1:800,000	27×40	1922	.75	4716	Panay, Negros and Cebu, with parts of Bohol and Masbate.	1:400,000	31×41	1917	.75
4707	Philippine Islands, southwest- ern part.....	1:800,000	31×41	1928	.75	4718	Surigao Strait and Leyte, with parts of Samar and Min- danao.....	1:400,000	30×40	1925	.75
4708	Philippine Islands, southeast- ern part.....	1:800,000	31×33	1926	.75	4719	Balabac Strait and approaches.	1:400,000	31×41	1924	.75
4714	Southwestern Luzon and Min- doro.....	1:395,000	32×39	1920	.75	4720	Sulu Archipelago.....	1:400,000	30×42	1929	.75
						4722					

TABLE OF SCALE EQUIVALENTS

The following table gives the lengths of nautical and statute miles on the several scales named, these scales being the proportionate size of the chart to nature. That is, in the scale 1:1,200 the chart is 1:1,200 part of the actual linear dimensions in nature (or 100 feet to the inch), equal to 60.8 inches to a nautical mile, and 52.8 inches to a statute mile, and so on.

A nautical mile is a minute of an average great circle of the earth, and its length is 6,080 feet, or 1,853.2 meters. A statute mile is 5,280 feet, or 1,609.3 meters.

Scale	Nautical mile		Statute mile	
	Inches	Centimeters	Inches	Centimeters
1:1,200	60.803	154.44	52.800	134.11
1:2,400	30.401	77.22	26.400	67.06
1:4,800	15.201	38.61	13.200	33.53
1:5,000	14.593	37.06	12.672	32.19
1:10,000	7.296	18.53	6.336	16.09
1:15,000	4.864	12.36	4.224	10.73
1:20,000	3.648	9.27	3.168	8.05
1:30,000	2.432	6.18	2.112	5.36
1:40,000	1.824	4.63	1.584	4.02
1:50,000	1.459	3.71	1.267	3.22
1:60,000	1.216	3.09	1.056	2.68
1:80,000	.912	2.32	.792	2.01
1:100,000	.730	1.85	.634	1.61
1:200,000	.365	.93	.317	.80
1:400,000	.182	.46	.158	.40
1:1,000,000	.073	.18	.063	.16
1:1,200,000	.061	.15	.053	.13

1 meter=39.37 inches; 1 centimeter=0.3937 inch; 1 inch=2.54 centimeters.



